

# SAT Math Formula Sheet

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GIVEN ON TEST DAY

Circle

$A = \pi r^2$   $C = 2 \pi r$

Rectangle

$A = l w$

Triangle

$A = \frac{1}{2} b h$

Right triangle

$c^2 = a^2 + b^2$

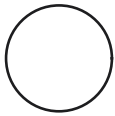
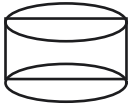
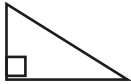
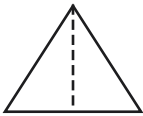
Special triangles

$x:\sqrt{3}:2x$   $x:x:\sqrt{2}$

Cylinder & Box

$V = \pi r^2 h$   $V = lwh$

Sphere & Cone  
 $V = \frac{4}{3} \pi r^3$   $V = \frac{1}{3} \pi r^2 h$



Circle  
360 deg 2pi rad

KNOW BY HEART - 6 ESSENTIALS

Line  
 $y = m x + b$   
 $m = \frac{(y_2 - y_1)}{(x_2 - x_1)}$

Quadratic  
 $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Trig  
SOH CAH TOA

Circle eq  
 $(x-h)^2 + (y-k)^2 = r^2$

Exponents  
 $a^m a^n = a^{(m+n)}$   
 $a^0 = 1$

Percent  
 $\% = \frac{(\text{new} - \text{old})}{\text{old}} \times 100$